

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) ~~Method~~ A method for coupling each of one or more peripheral devices ~~[(8)]~~ to a network ~~[(4)]~~ of distributed ~~antennas antenna's~~ ~~[(6)]~~, each peripheral device ~~[(8)]~~ being suitable for transmission of one or more carrier signals, which each occupy a different radio frequency band, the network of ~~antennas antenna's~~ comprising a main transmission path by cable ~~[(7)]~~, in which the carrier signals are coupled into and out of the main transmission path from and to the peripheral devices ~~[(8)]~~ respectively, comprising the steps of
~~characterized by:~~

a) dividing the network ~~[(4)]~~ of ~~antennas antenna's~~ into a first network ~~[(14)]~~ and a second network ~~[(15)]~~ comprising a first main transmission path part ~~[(17)]~~ and a second main transmission path part ~~[(18)]~~ of the main transmission path respectively; and

at a location between the first ~~[(17)]~~ and second ~~[(18)]~~ main transmission path parts:

b) splitting the first main transmission path part ~~[(17)]~~ into a first group of intermediate transmission paths ~~[(35)]~~ for transmission of different carrier signals over different intermediate transmission paths ~~[(35)]~~ of the first group;

c) splitting the second main transmission path part ~~[(18)]~~ into a second group of intermediate transmission paths ~~[(36)]~~ for transmission of different carrier signals over different intermediate transmission paths ~~[(36)]~~ of the second group; and

d) connecting an intermediate path ~~[(36)]~~ of the second group to an intermediate path of the first group ~~[(35)]~~ or to a further peripheral device ~~[(22)]~~.

2. (Currently Amended) ~~Method~~ The method according to claim 1, **~~characterized in that~~** wherein an intermediate path ~~[(35)]~~ of the first group of

intermediate paths is connected to an intermediate path ~~[[36]]~~ of the second group of intermediate paths or to an intermediate path terminating member ~~[[47]]~~.

3. (Currently Amended) ~~Method~~ The method according to claim ~~[[1 or]]~~ 2, ~~characterized in that~~ wherein an input of the intermediate coupling device ~~[[21]]~~ for connection to the further peripheral device ~~[[22]]~~ is connected to an intermediate path ~~[[36]]~~ of the second group of intermediate paths or to an intermediate path terminating member ~~[[48]]~~.

4. (Currently Amended) A transmission ~~Transmission~~ system, comprising a main coupling device ~~[[3]]~~ and a network ~~[[4]]~~ of distributed antennas ~~antenna's (6)~~ having a cable ~~[[7]]~~ providing a main transmission path, the main coupling device ~~[[3]]~~ being suitable for coupling the cable ~~[[7]]~~ to one or more peripheral devices ~~[[8]]~~, each of which being suitable for transmission of one or more carrier signals, which each occupy a different radio frequency band, ~~characterized by~~ wherein the network ~~[[4]]~~ of antennas ~~antenna's (6)~~ being divided into first ~~[[14]]~~ and second networks ~~[[15]]~~ providing first and ~~[[17]]~~ second ~~[[18]]~~ main transmission path parts of the main transmission path respectively, an intermediate coupling device ~~[[21]]~~ being coupled to the first and second main transmission path parts ~~(17, 18)~~ and splitting the first and second main transmission path parts ~~(17, 18)~~ into a first and second groups of intermediate paths ~~(35, 36)~~ respectively for transmission per group of intermediate paths of different carrier signals over different intermediate transmission paths, and the intermediate coupling device ~~[[21]]~~ connecting an intermediate path ~~[[36]]~~ of the second group to an intermediate path ~~[[35]]~~ of the first group or to a further peripheral device ~~[[22]]~~.

5 (Currently Amended) The transmission ~~Transmission~~ system according to claim 4, ~~characterized in that~~ wherein a path ~~[[35]]~~ of the first group of intermediate paths is connected to a path ~~[[36]]~~ of the second group of intermediate paths or to an intermediate path terminating member ~~(45, 46)~~.

6. (Currently Amended) The transmission ~~Transmission~~ system according to claim [[4 or]] 5, ~~characterized in that~~ wherein an input of the intermediate coupling device [[[21)]] for connection to the further peripheral device [[[22)]] is connected to an intermediate path [[[36)]] of the second group of intermediate paths or to an intermediate path terminating member [[[46)]]].

7. (Currently Amended) The transmission ~~Transmission~~ system according to claim [[4, 5 or]] 6 ~~characterized in that~~ wherein the intermediate paths (35, 36) of the first and second groups of intermediate paths and the further peripheral device [[[22)]] are connected to each other by remote controllable electronic switches.

8. (Currently Amended) The transmission ~~Transmission~~ system according to claim 7, ~~characterized in that~~ wherein remote control of the electronic switches is exercised by control functionality of a peripheral device which is associated with the switch.

9. (Currently Amended) The transmission ~~Transmission~~ system according to claim 4, ~~characterized in that~~ wherein a first port [[[51)]] of circulator [[[50)]] is connected to a first intermediate path [[[35)]], a second port [[[52)]] is connected to a short circuit [[[56)]] or to a further peripheral device [[[22)]], and a third port [[[53)]] of the circulator [[[50)]] is connected to a second intermediate [[[36)]]].

10. (Currently Amended) The transmission ~~Transmission~~ system according to claim 9, ~~characterized in that~~ wherein with a further peripheral device [[[22)]] connected to the second port [[[52)]] of circulator [[[50)]] the further peripheral device [[[22)]] provides a matched load to said second port [[[52)]]].

11. (Currently Amended) The transmission ~~Transmission~~ system according to claim [[9 or]] 10, ~~characterized in that~~ wherein with a further peripheral device [[[22)]] connected to the second port [[[52)]] of circulator [[[50)]] the further

peripheral device [(22)] is connected to said second port [(52)] through an isolator which provides a matched load to said second port [(52)].

12. (Currently Amended) The transmission ~~Transmission~~ system according to claim 11, ~~characterized in that~~ wherein the isolator is a further circulator of which an intermediate or second port is terminated by a matched load.